

Food Zoomer

The Food Zoomer measures IgA, IgG, and IgE immune responses across a broad range of food proteins, peptides, and whole-food extracts. Markers span dairy, grains, legumes, nuts, seeds, fruits, vegetables, meats, seafood, lectins, aquaporins, and common food additives. This structure allows clinicians to evaluate both protein-specific immune patterns and broader dietary exposure within a single, organized panel.

Whole-Food Extracts & Additives			
<p>Dairy (11)</p> <ul style="list-style-type: none"> • Beta-casein • Casomorphin • Cow's milk • Goat's milk • Whey protein • Buffalo milk • Buttermilk • Cheddar cheese • Kefir • Sheep's milk • Yogurt <p>Fish (16)</p> <ul style="list-style-type: none"> • Catfish • Codfish • Halibut • Lake trout • Mackerel • Perch • Salmon • Tuna • Alaska pollock • Anchovy • Carp • Eel • Flounder • Sardine • Sea bass • Sole 	<p>Mollusks (8)</p> <ul style="list-style-type: none"> • Clam • Oyster • Scallops • Blue mussel • Octopus • Pacific squid • Squid • Grapevine snail <p>Legumes (11)</p> <ul style="list-style-type: none"> • Kidney bean • Navy bean • Peanut • Soybean • Chickpea • Broad bean • Mung bean • Black bean • Black-eye pea • Lentil • Pinto bean <p>Vegan / Plant-Based Foods (3)</p> <ul style="list-style-type: none"> • Tofu • Tempeh • Vegan cheese 	<p>Miscellaneous / Ferments / Sweeteners (14)</p> <ul style="list-style-type: none"> • Baker's yeast • Brewer's yeast • Coffee • Tea • Cocoa • Vanilla • Apple cider vinegar • Balsamic vinegar • Distilled white vinegar • Red wine vinegar • Rice vinegar • White wine vinegar • Cane sugar • Honey <p>Nuts (11)</p> <ul style="list-style-type: none"> • Almond • Black walnut • Cashew • English walnut • Pecan • Hazelnut • Pine nut • Pistachio • Sweet chestnut • Brazil nut • Macadamia nut <p>Nightshades (3)</p> <ul style="list-style-type: none"> • Green pepper • White potato • Eggplant 	<p>Spices (19)</p> <ul style="list-style-type: none"> • Black pepper • Cinnamon • Nutmeg • Anise • Bay leaf • Caraway • Cayenne pepper • Common thyme • Curry powder • Dill • Hot paprika powder • Oregano • Parsley • Woo-hsiang powder (five-spice) • Cumin • Cilantro • Habanero pepper • Jalapeño pepper • Turmeric <p>Vegetables (39)</p> <ul style="list-style-type: none"> • Asparagus • Bamboo shoots • Beet root • Endive • Leek • Arugula / rocket • Salsify root • Turnip • White radish • Artichoke • Chard • Kale • Shiitake mushroom • Zucchini • Acorn squash • Butternut squash

(Continued on next page)

Whole-Food Extracts & Additives (continued)
Meat & Poultry (12)

- Beef
- Chicken
- Egg white
- Egg yolk
- Lamb
- Pork
- Turkey
- Duck meat
- Goose meat
- Grapevine snail
- Rabbit
- Veal

Shellfish (4)

- Crab
- Lobster
- Shrimp
- Crayfish

Fruits (39)

- Apple
- Apricot
- Avocado
- Banana
- Blackberry
- Blueberry
- Cantaloupe
- Cherry
- Cranberry
- Currant
- Date fruit
- Fig
- Grape

- Grapefruit
- Lemon
- Lime
- Nectarine
- Green olive
- Orange
- Peach
- Pear
- Pineapple
- Raspberry
- Strawberry
- Tomato
- Watermelon
- Pomegranate

Gluten-Containing Grains (7)

- Barley
- Wheat
- Malt
- Oats
- Rye
- Spelt
- Couscous
- Seeds (9)
- Mustard seed
- Sesame seed
- Coriander seed
- Flaxseed
- Poppy seed
- Rapeseed
- Sunflower seed
- Chia seed
- Hemp seed

- Prune
- Raisin
- Tangerine
- Blackcurrant
- Elderberry
- Gooseberry
- Mulberry
- Passion fruit
- Persimmon
- Plum
- Capers
- Papaya
- Broccoli
- Cabbage
- Carrot
- Cauliflower
- Celery
- Cucumber
- Garlic
- Green beans
- Lettuce
- Mushroom
- Black olive
- Onion
- Seaweed (kelp)
- Spinach
- Squash (other varieties)
- Ginger
- Sweet potato
- Portabella mushroom
- Purple potato
- Shallot
- Spaghetti squash
- Green onion / scallion
- Parsnip

Wheat & Gluten-Related Antigens
Zonulin

- Anti-Zonulin
- Anti-Actin
- Human Anti-Lipopolysaccharide
- Deaminated Gliadin Peptide (DGP)
- Transglutaminase 2 (tTg)
- tTG/DGP Fusion Peptide
- Alpha Gliadin
- Alpha-Beta Gliadin
- Gamma Gliadin

- Gluteomorphin
- Prodynorphin
- High Molecular Weight (HMW) Glutenin
- Low Molecular Weight (LMW) Glutenin
- Serpin
- Farinins
- Amylase/Protease Inhibitors
- Globulins
- Purinin

Dairy Peptides
 α S1-casein & α S2-casein

- α S2-casein / retinal S-antigen overlap
- κ -casein
- β -casein
- A1 β -casein & Islet cell overla
- Beta-casomorphin (BCM)
- α -lactalbumin
- β -lactoglobulin
- Serum albumin
- Lactoferrin
- Butyrophilin

(Continued on next page)

ML-26-005

Peanut Peptides		Corn Peptides & GMO Antigens		Soy Peptides & GMO Markers	
<ul style="list-style-type: none"> • Ara h 3 • Arachin • Glycinin • Ara h 2 • Ara h 6 • Ara h 7 • Ara h 9 • Ara h 5 • Ara h 8 and Ara h 8 isoform • Ara h 10 • Ara h 11 • Oleosin Variant A • Oleosin variant B • Ara h 12 • Ara h 13 		Corn Zein <ul style="list-style-type: none"> • Corn Profilin • Corn Albumin • Corn Globulin • Corn Glutelin • Corn Expansin • Corn Endochitinase • Corn-Wheat overlap epitope • Corn Lipid transfer protein • Corn Thioredoxin • Corn Exopolygalacturonase • Corn pollen antigens • Corn Cry Protein 		<ul style="list-style-type: none"> • Gly m 1 • Gly m 2 • Gly m 3 • Gly m 4 • Gly m 5 • Gly m 6 • Gly m 7 • Gly m 8 • Gly m Bd 30k • Kunitz soybean trypsin inhibitor • Cry1Ac GMO protein 	
Egg White & Egg Yolk Peptides			Lectins & Aquaporins		
Egg White <ul style="list-style-type: none"> • Ovomuroid (Gal d 1) • Ovalbumin (Gal d 2) • Ovotransferrin (Gal d 3) • Lysozyme (Gal d 4) • Ovomucin • Avidin 		Egg Yolk <ul style="list-style-type: none"> • YGP42 (Gal d 6) • Alpha-livetin (Gal d 5) • Vitellogenin-1 • Lipovitellin • Apovitellenin 		Lectins (16) <ul style="list-style-type: none"> • Barley • Bell pepper • Chickpea • Corn • Cucumber • Kidney bean • Lentil • Lima bean 	
		<ul style="list-style-type: none"> • Mung bean • Pea • Peanut • Potato • Rice • Rye • Soybean • Tomato 		Aquaporins (7) <ul style="list-style-type: none"> • Bell pepper • Corn • Potato • Soybean • Spinach • Tobacco • Tomato 	
Celiac Genetics (Add-On Markers)					
<ul style="list-style-type: none"> • LA-DQ2 		<ul style="list-style-type: none"> • HLA-DQ8 			